

What is claimed is:

1.

A composition for promoting gastrointestinal health and prevention of infection by verotoxin-producing bacteria in animals comprising:  
polyclonal, monospecific antibodies isolated from animal plasma.

2.

A composition according to claim 1 further including a pharmaceutically acceptable carrier.

3.

A composition according to claim 1 that is formulated into a dosage form selected from the group consisting of tablet, capsule, solution, granules, powder, and suspension for internal administration.

4.

A composition according to claim 1 containing at least 15% IgG by weight.

5.

A composition according to claim 2 wherein the monospecific antibodies are present in a concentration to achieve a verotoxin neutralization titer of equal to or greater than 1:8.

6.

A composition according to claim 1 which is processed to increase the total globulin content.

7.

A composition according to claim 6 which contains two to four fold more globulin protein than untreated bovine serum.

8.

A composition according to claim 1 further including: supplemental polyclonal monospecific antibodies from an animal, wherein the animal has been previously exposed to a verotoxin producing organism.

9.

A composition according to claim 1 further including: supplemental polyclonal monospecific antibodies from an animal, wherein the animal has been previously exposed to a bacterial toxin selected from the group consisting of shiga-toxin and shiga-like toxin.

10.

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A method of preventing infection and disease from verotoxin-producing bacteria in animals comprising: internally administering a composition to an animal which comprises polyclonal, monospecific antibodies isolated from natural animal serum.

11.

A method according to claim 10 wherein the animal serum source is from the same species of animal that the composition is administered to.

12.

A method according to claim 10 wherein the animal serum source is selected from the group consisting of bovine and porcine.

13.

A method according to claim 10 wherein the composition is administered in a dose of from about 1 g to about 30 g of plasma protein per day.

14.

A method according to claim 10 wherein the composition is administered through the animal's feed or water.

15.

A method according to claim 10 wherein the composition is administered in a dosage form selected from the group consisting of tablets, capsules, granules, liquid, suspension, and powder.

16.

A method according to claim 10 wherein the composition is administered in dairy products.

17.

A method according to claim 10 wherein the composition is administered orally.

18.

A method of manufacturing a composition for preventing infection and disease in animals from verotoxin-producing bacteria comprising:

obtaining blood from an animal source, wherein the blood includes a plasma and a red cell fraction; separating the plasma from the red cell fraction; removing the fibrin from the plasma to form serum; removing a portion of the albumin from the serum to form concentrated globulin protein fraction; and placing the globulin protein fraction in a pharmaceutically acceptable carrier.

19.

A method according to claim 18 wherein the globulin protein fraction is placed in the carrier in a concentration of from about 25 to about 95% by weight.

20.

A method according to claim 18 wherein supplemental immunoglobulin is placed in the composition.

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